

**Supplemental Disclosure File has Two Record Types:**

**Supplemental Pool Detail Record (Type “U”) and**

**Removals by Issuer Record (Type “R”)**

**Supplemental Pool Detail Record Layout**

Data Item	Begin	End	Type	Length	Remarks
CUSIP	1	9	Character	9	X(9)
Pool Number	10	15	Numeric	6	9(6)
<b>Pool Indicator and Type</b>					
Pool Indicator (X, C, or M)	16	16	Character	1	X
Pool Type	17	18	Character	2	X(2)
Record Type (U=Supplemental)	19	19	Character	1	X
Issuer	20	23	Numeric	4	9(4)
<b>CLTV</b>					
Weighted Average CLTV	24	26	Numeric	3	9(3)
Maximum CLTV (Q4)	27	29	Numeric	3	9(3)
75th Percentile CLTV (Q3)	30	32	Numeric	3	9(3)
Median CLTV (Q2)	33	35	Numeric	3	9(3)
25th Percentile CLTV (Q1)	36	38	Numeric	3	9(3)
Minimum CLTV (Q0)	39	41	Numeric	3	9(3)
<b>Credit Score</b>					
Weighted Average Credit Score	42	44	Numeric	3	9(3)
Maximum Credit Score (Q4)	45	47	Numeric	3	9(3)
75th Percentile Credit Score (Q3)	48	50	Numeric	3	9(3)
Median Credit Score (Q2)	51	53	Numeric	3	9(3)
25th Percentile Credit Score (Q1)	54	56	Numeric	3	9(3)
Minimum Credit Score (Q0)	57	59	Numeric	3	9(3)
Credit Score Not Available Number of Loans	60	65	Numeric	6	9(6)
Credit Score Not Available UPB	66	78	Numeric	13	9(11)v9(2)
Credit Score Not Available % of Total UPB	79	83	Numeric	5	9(3)v9(2)
<b>Debt/Income Ratio</b>					
Weighted Average Debt Income Ratio	84	87	Numeric	4	9(1)v9(3)
Maximum Debt Income Ratio (Q4)	88	91	Numeric	4	9(1)v9(3)
75th Percentile Debt Income Ratio (Q3)	92	95	Numeric	4	9(1)v9(3)
Median Debt Income Ratio (Q2)	96	99	Numeric	4	9(1)v9(3)
25th Percentile Debt Income Ratio (Q1)	100	103	Numeric	4	9(1)v9(3)
Minimum Debt Income Ratio (Q0)	104	107	Numeric	4	9(1)v9(3)
Debt Income Ratio Not Available Number of Loans	108	113	Numeric	6	9(6)
Debt Income Ratio Not Available UPB	114	126	Numeric	13	9(11)v9(2)
Debt Income Ratio Not Available % of Total UPB	127	131	Numeric	5	9(3)v9(2)
<b>Down Payment Assistance</b>					
Down Payment Assistance Number of Loans	132	137	Numeric	6	9(6)
Down Payment Assistance UPB of Loans	138	150	Numeric	13	9(11)v9(2)
Down Payment Assistance % of Total UPB	151	155	Numeric	5	9(3)v9(2)
Without Payment Assistance Number of Loans	156	161	Numeric	6	9(6)
Without Payment Assistance UPB of Loans	162	174	Numeric	13	9(11)v9(2)
Without Payment Assistance % of Total UPB	175	179	Numeric	5	9(3)v9(2)

Data Item	Begin	End	Type	Length	Remarks
<b>Top 10 MSAs by Total UPB</b>					
Highest MSA	180	184	Numeric	5	9(5)
Highest MSA Number of Loans	185	190	Numeric	6	9(6)
Highest MSA UPB of Loans	191	203	Numeric	13	9(11)v9(2)
Highest MSA % of Total UPB	204	208	Numeric	5	9(3)v9(2)
2nd Highest MSA	209	213	Numeric	5	9(5)
2nd Highest MSA Number of Loans	214	219	Numeric	6	9(6)
2nd Highest MSA UPB of Loans	220	232	Numeric	13	9(11)v9(2)
2nd Highest MSA % of Total UPB	233	237	Numeric	5	9(3)v9(2)
3rd Highest MSA	238	242	Numeric	5	9(5)
3rd Highest MSA Number of Loans	243	248	Numeric	6	9(6)
3rd Highest MSA UPB of Loans	249	261	Numeric	13	9(11)v9(2)
3rd Highest MSA % of Total UPB	262	266	Numeric	5	9(3)v9(2)
4th Highest MSA	267	271	Numeric	5	9(5)
4th Highest MSA Number of Loans	272	277	Numeric	6	9(6)
4th Highest MSA UPB of Loans	278	290	Numeric	13	9(11)v9(2)
4th Highest MSA % of Total UPB	291	295	Numeric	5	9(3)v9(2)
5th Highest MSA	296	300	Numeric	5	9(5)
5th Highest MSA Number of Loans	301	306	Numeric	6	9(6)
5th Highest MSA UPB of Loans	307	319	Numeric	13	9(11)v9(2)
5th Highest MSA % of Total UPB	320	324	Numeric	5	9(3)v9(2)
6th Highest MSA	325	329	Numeric	5	9(5)
6th Highest MSA Number of Loans	330	335	Numeric	6	9(6)
6th Highest MSA UPB of Loans	336	348	Numeric	13	9(11)v9(2)
6th Highest MSA % of Total UPB	349	353	Numeric	5	9(3)v9(2)
7th Highest MSA	354	358	Numeric	5	9(5)
7th Highest MSA Number of Loans	359	364	Numeric	6	9(6)
7th Highest MSA UPB of Loans	365	377	Numeric	13	9(11)v9(2)
7th Highest MSA % of Total UPB	378	382	Numeric	5	9(3)v9(2)
8th Highest MSA	383	387	Numeric	5	9(5)
8th Highest MSA Number of Loans	388	393	Numeric	6	9(6)
8th Highest MSA UPB of Loans	394	406	Numeric	13	9(11)v9(2)
8th Highest MSA % of Total UPB	407	411	Numeric	5	9(3)v9(2)
9th Highest MSA	412	416	Numeric	5	9(5)
9th Highest MSA Number of Loans	417	422	Numeric	6	9(6)
9th Highest MSA UPB of Loans	423	435	Numeric	13	9(11)v9(2)
9th Highest MSA % of Total UPB	436	440	Numeric	5	9(3)v9(2)
10th Highest MSA	441	445	Numeric	5	9(5)
10th Highest MSA Number of Loans	446	451	Numeric	6	9(6)
10th Highest MSA UPB of Loans	452	464	Numeric	13	9(11)v9(2)
10th Highest MSA % of Total UPB	465	469	Numeric	5	9(3)v9(2)
MSA Not Available Number of Loans	470	475	Numeric	6	9(6)
MSA Not Available UPB of Loans	476	488	Numeric	13	9(11)v9(2)
MSA Not Available % of Total UPB	489	493	Numeric	5	9(3)v9(2)
<b>Loan Purpose/Refinance Codes</b>					
Previous Loss Mitigation Number of Loans	494	499	Numeric	6	9(6)
Previous Loss Mitigation UPB Of Loans	500	512	Numeric	13	9(11)v9(2)
Previous Loss Mitigation % of Total UPB	513	517	Numeric	5	9(3)v9(2)
VA Refi Number of Loans	518	523	Numeric	6	9(6)
VA Refi UPB Of Loans	524	536	Numeric	13	9(11)v9(2)
VA Refi % of Total UPB	537	541	Numeric	5	9(3)v9(2)

Data Item	Begin	End	Type	Length	Remarks
FHA to FHA Streamline Refin "R" Streamline Indicator "S" or "H" Number of Loans	542	547	Numeric	6	9(6)
FHA to FHA Streamline Refin "R" Streamline Indicator "S" or "H" UPB Of Loans	548	560	Numeric	13	9(11)v9(2)
FHA to FHA Streamline Refin "R" Streamline Indicator "S" or "H" % of Total UPB	561	565	Numeric	5	9(3)v9(2)
FHA to FHA Cashout Refin Type "R" Cash Out "Y" Number of Loans	566	571	Numeric	6	9(6)
FHA to FHA Cashout Refin Type "R" Cash Out "Y" UPB Of Loans	572	584	Numeric	13	9(11)v9(2)
FHA to FHA Cashout Refin Type "R" Cash Out "Y" % of Total UPB	585	589	Numeric	5	9(3)v9(2)
Conventional to FHA Delinquent Refi Type "D" Number of Loans	590	595	Numeric	6	9(6)
Conventional to FHA Delinquent Refi Type "D" UPB Of Loans	596	608	Numeric	13	9(11)v9(2)
Conventional to FHA Delinquent Refi Type "D" % of Total UPB	609	613	Numeric	5	9(3)v9(2)
Conventional to FHA Not Delinquent Refi Type "C" Number of Loans	614	619	Numeric	6	9(6)
Conventional to FHA Not Delinquent Refi Type "C" UPB Of Loans	620	632	Numeric	13	9(11)v9(2)
Conventional to FHA Not Delinquent Refi Type "C" % of Total UPB	633	637	Numeric	5	9(3)v9(2)
Conventional to FHA Cashout Refin Type "C" Cash Out "Y" Number of Loans	638	643	Numeric	6	9(6)
Conventional to FHA Cashout Refin Type "C" Cash Out "Y" UPB Of Loans	644	656	Numeric	13	9(11)v9(2)
Conventional to FHA Cashout Refin Type "C" Cash Out "Y" % of Total UPB	657	661	Numeric	5	9(3)v9(2)
<b>Removals</b>					
Mortgagor Payoff Number of Loans	662	667	Numeric	6	9(6)
Mortgagor Payoff % UPB	668	672	Numeric	5	9(3)v9(2)
Repurchase Delinquent Loan Number of Loans	673	678	Numeric	6	9(6)
Repurchase Delinquent Loan % UPB	679	683	Numeric	5	9(3)v9(2)
Foreclosure with Claim Payment Number of Loans	684	689	Numeric	6	9(6)
Foreclosure with Claim Payment % UPB	690	694	Numeric	5	9(3)v9(2)
Repurchase Loss Mitigation Number of Loans	695	700	Numeric	6	9(6)
Repurchase Loss Mitigation % UPB	701	705	Numeric	5	9(3)v9(2)
Substitution Number of Loans	706	711	Numeric	6	9(6)
Substitution Number of % UPB	712	716	Numeric	5	9(3)v9(2)
<b>Length of Record</b>				<b>716</b>	

### Supplemental Removals by Issuer Record Layout

Data Item	Begin	End	Type	Length	Remarks
CUSIP	1	9	Character	9	X(9)
Pool Number	10	15	Numeric	6	9(6)
<b>Pool Indicator and Type</b>					
Pool Indicator (M)	16	16	Character	1	X
Pool Type	17	18	Character	2	X(2)
Record Type (R=Removals)	19	19	Character	1	X
<b>Removals by Issuer</b>					
Issuer	20	23	Numeric	4	9(4)
Mortgagor Payoff Number of Loans	24	29	Numeric	6	9(6)
Mortgagor Payoff % UPB	30	34	Numeric	5	9(3)v9(2)
Repurchase Delinquent Loan Number of Loans	35	40	Numeric	6	9(6)
Repurchase Delinquent Loan % UPB	41	45	Numeric	5	9(3)v9(2)
Foreclosure with Claim Payment Number of Loans	46	51	Numeric	6	9(6)
Foreclosure with Claim Payment % UPB	52	56	Numeric	5	9(3)v9(2)
Repurchase Loss Mitigation Number of Loans	57	62	Numeric	6	9(6)
Repurchase Loss Mitigation % UPB	63	67	Numeric	5	9(3)v9(2)
Substitution Number of Loans	68	73	Numeric	6	9(6)
Substitution Number of % UPB	74	78	Numeric	5	9(3)v9(2)
<b>Length of Record</b>				<b>78</b>	

The “R” record is related to the specific multi-issuer pool, and these are created based on removal activity for the period. The “R” records are created only for issuers within the multi-issuer pool – for each issuer that had one or more loan removals (repurchases) in the report period.